PCT

For receiving Office use only			
International Application No.			
International Filing Date			
Name of receiving Office and "PCT International Application"			
Applicant's or agent's file reference			

REQUEST	International Filing Date				
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"				
	Applicant's or agent's file ref				
Box No. I TITLE OF INVENTION MAGNETIC MEMORY DEVICE, SENSE AMPLIFIER CIRCUIT AND METHOD OF READING FROM MAGNETIC MEMORY DEVICE					
Box No. II APPLICANT	This person is also inventor				
Name and address: (Family name followed by given name; for a leg The address must include postal code and name of country. The count Box is the applicant's State (that is, country) of residence if no State of r TDK CORPORATION	Telephone No. 0267-68-4511 Facsimile No. 0267-68-4515				
1-13-1, Nihonbashi 1-chome	Teleprinter No.				
Chuo-ku, Tokyo 103-8272 JAPAN	Applicant's registration No. with the Office				
State (that is, country) of nationality: State (that is, country) of residence: Japan Japan					
	•	nited States the States indicated in the Supplemental Box			
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	IER) INVENTOR(S)				
Name and address: (Family name followed by given name; for a legathe address must include postal code and name of country. The country Box is the applicant's State (that is, country) of residence if no State of reEZAKI Joichiro C/o TDK CORPORATION 1-13-1, Nihonbashi 1-chome. Chuo-ku, Tokyo 103-8272 JAPAN	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office				
State (that is, country) of nationality: Japan	State (that is, country) of resider	nce: Japan			
	. 181	nited States the States indicated in the nerica only Supplemental Box			
Further applicants and/or (further) inventors are indicated on a continuation sheet.					
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE					
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:					
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)		elephone No. 03-3225-0981			
9-5, Shinjuku 1-chome, Shinjuku-ku Tokyo 160-0022 JAPAN		acsimile No. 03-3225-0980 Celeprinter No.			
	A	gent's registration No. with the Office 100109656			
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.					

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet should not be included in the request.				
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) KAKINUMA Yuji C/o TDK CORPORATION 1-13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-8272 JAPAN	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)			
	Applicant's registration No. with the Office			
State (that is, country) of nationality: State (that is, country) of res Japan	idence: Japan			
	nited States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) KOGA Keiji C/o TDK CORPORATION 1-13-1. Nihonbashi 1-chome, Chuo-ku, Tokyo 103-8272 JAPAN	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is country) of nationality	:4			
State (that is, country) of nationality: State (that is, country) of residence: Japan Japan				
	nited States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) SUMITA Shigekazu C/o TDK CORPORATION 1-13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-8272 JAPAN	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.)			
The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) SUMITA Shigekazu C/o TDK CORPORATION 1-13-1, Nihonbashi 1-chome,	This person is: applicant only applicant and inventor inventor only (If this check-box			
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The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) SUMITA Shigekazu C/o TDK CORPORATION 1-13-1, Nihonbashi 1-chome, Chuo-ku, Tokyo 103-8272 JAPAN State (that is, country) of nationality: Japan This person is applicant for all designated all designated States except the United States of America of America of America Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) State (that is, country) of nationality: State (that is, country) of nationality: State (that is, country) of residence all designated States except the United States indicated below.)	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office idence: JAPAN inited States the States indicated in the Supplemental Box This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			

Box No. VI PRIORITY CLAIM					
The priority of the following earlier application(s) is hereby claimed:					
Filing date	Number	Where earlier application is:			
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office	
item (1) 24.03.03	2003-081251	Japan			
item (2)					
item (3)					
item (4)					
item (5)					
Further priority cl	aims are indicated in the S	Supplemental Box.			
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:					
all items item (1) item (2) item (3) item (4) item (5) other, see Supplemental Box					
*Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):					
Box No. VII INTERNA	ATIONAL SEARCHING	GAUTHORITY			
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used): ISA IJP					
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):					
Date (day/month/year)	Number		Country (or regional Offi	ice)	
Box No. VIII DECLARATIONS					
The following declarations:	are contained in Boxes Nos. V	III (i) to (v) (mark the applica	ble check-boxes below and indic	cate in Number of	
the right column the number of each type of declaration): declarations					
Box No. VIII (i) Declaration as to the identify of the inventor : Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for					
and be granted a patent :					
Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application:					
Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America):					
Box No. VIII (v)	Declaration as to non-pre	ejudicial disclosures or excepti	ons to lack of novelty:	:	

Sheet No. 4

Box No. IX CHECK LIST; LANGUAGE OF FILING					
This international application contains:	This international application is accompanied by the				
(a) in paper form, the following number of sheets:	item(s) (mark the applicable check-boxes below and right column the number of each item):	indicate in of items			
request (including	1. 🛛 fee calculation sheet	: 1			
declaration sheets) : 5	2. original separate power of attorney	:1			
description (excluding sequence listings and/or	3.	:1			
tables related thereto) : 50	4. Sopy of general power of attorney; reference if any:				
claims : 3	5. statement explaining lack of signature	:			
abstract : 1	6. priority document(s) identified in Box No. V				
drawings : <u>22</u>	item(s):1				
Sub-total number of sheets: 81	7. translation of international application into				
sequence listings :	(language): 8. separate indications concerning deposited	:			
tables related thereto : (for both, actual number of	microorganism or other biological material	:			
sheets if filed in paper form, whether or not also filed in	9. sequence listing in computer readable form (type and number of carriers)	indicate			
computer readable form; see (c) below) :	(i) copy submitted for the purposes of intern search under Rule 13ter only (and not as				
Total number of sheets : 81	the international application)	:			
(b) only in computer readable form (Section 801(a)(i)) (i) sequence listings	(ii) (only where check-box (b)(i) or (c)(i) is n in left column) additional copies includin applicable, the copy for the purposes of				
(ii) tables related thereto	international search under Rule 13ter	:			
(c) also in computer readable form (Section 801(a)(ii))	(iii) together with relevant statement as to the of the copy or copies with the sequence I mentioned in left column				
(i) sequence listings	10. tables in computer readable form related to s	equence .			
(ii) tables related thereto	listings (indicate type and number of carrier.				
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	(i) copy submitted for the purposes of interm search under Section 802(b-quater) only as part of the international application)				
sequence listings	(ii) (only where check-box (b)(ii) or (c)(ii) is				
tables related thereto	in left column) additional copies includin applicable, the copy for the purposes of	g, where			
(additional copies to be indicated under item 9(ii), in right column)	international search under Section 802(b.	-quater) :			
tiem 9(ti), in right column)	(iii) together with relevant statement as to the	identity of the			
	copy or copies with the tables mentioned 11. other (specify):				
Figure of the drawings which	Language of filing of the	••••••			
should accompany the abstract: 19	international application: Japanese				
	AGENT OR COMMON REPRESENTATIVE				
Next to each signature, indicate the name of the person sign	ing and the capacity in which the person signs (if such capacity is n	not obvious from reading the request).			
	For receiving Office use only				
Date of actual receipt of the purported international application:	- containing containing	2. Drawings:			
Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		received:			
Date of timely receipt of the required corrections under PCT Article 11(2):		not received:			
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid				
For International Bureau use only					
Date of receipt of the record copy by the International Bureau:					

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